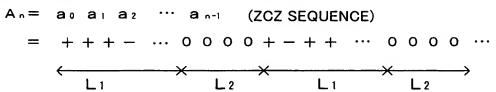
SIGNAL SEQUENCE FOR MULTIPATH ESTIMATION



TRANSMISSION DATA

$$B_{n} = b_{0} b_{1} b_{2} \cdots b_{n-1}$$

$$C_{n} = c_{0} c_{1} c_{2} \cdots c_{n-1}$$

$$D_{n} = d_{0} d_{1} d_{2} \cdots d_{n-1}$$

$$E_{n} = e_{0} e_{1} e_{2} \cdots e_{n-1}$$

FIG. 1

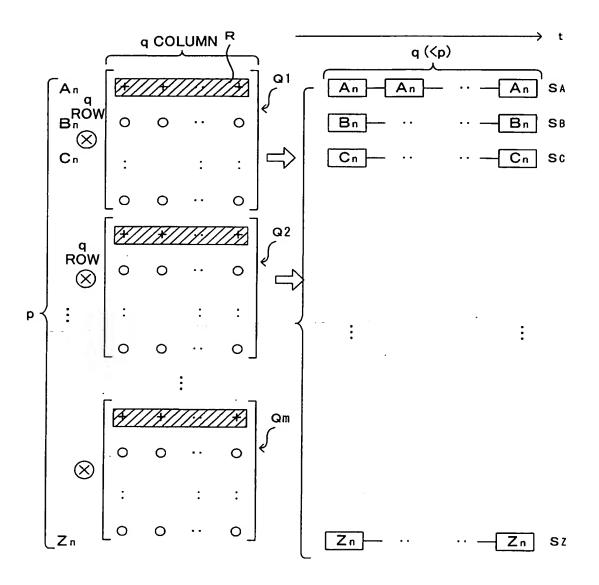
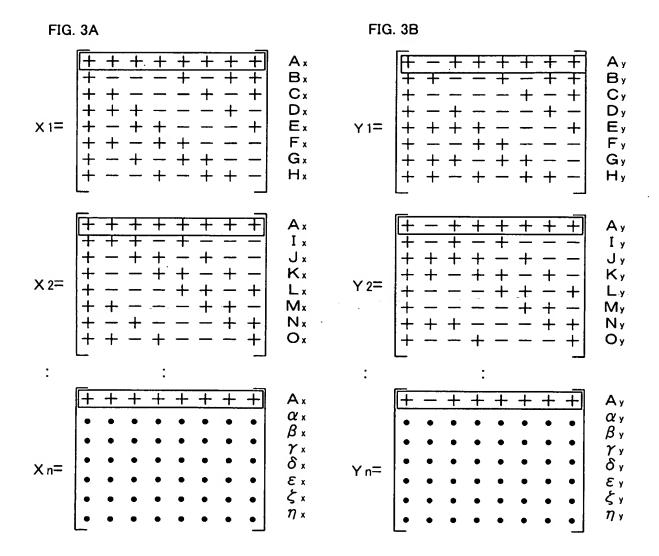


FIG. 2



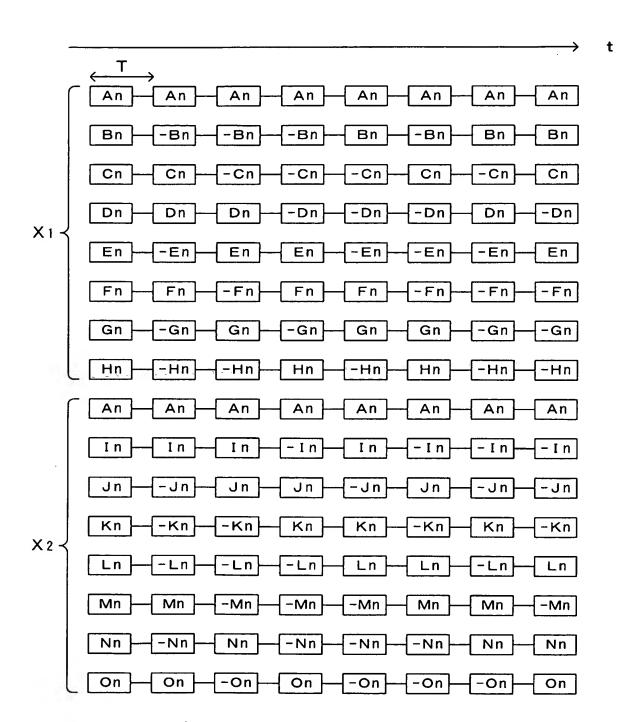
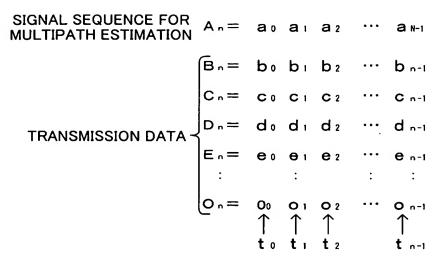


FIG. 4



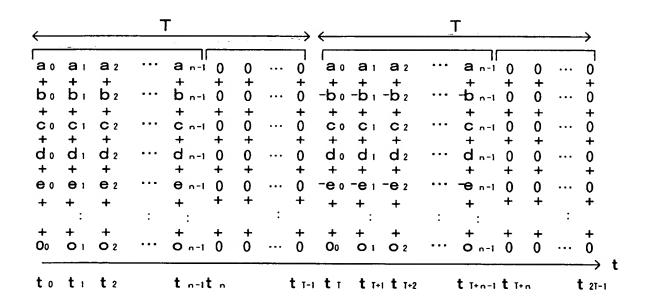
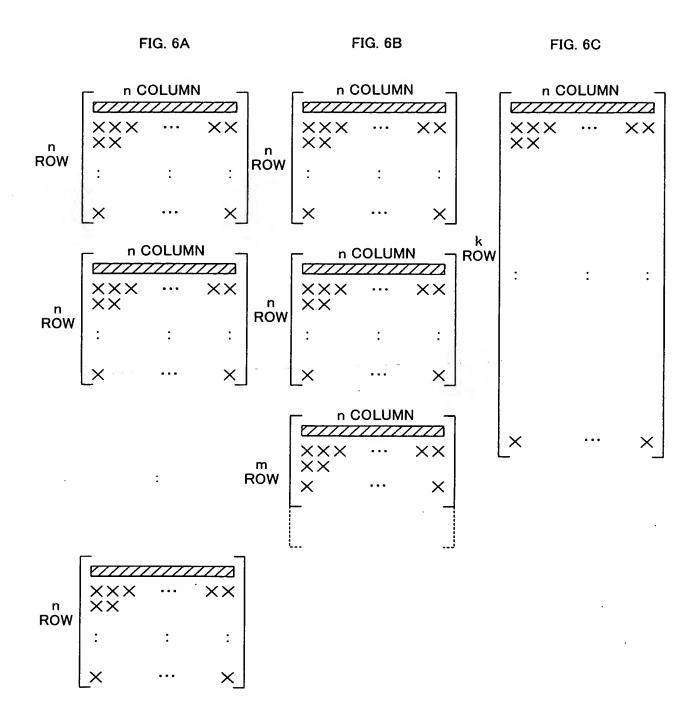


FIG. 5



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FIG. 7A

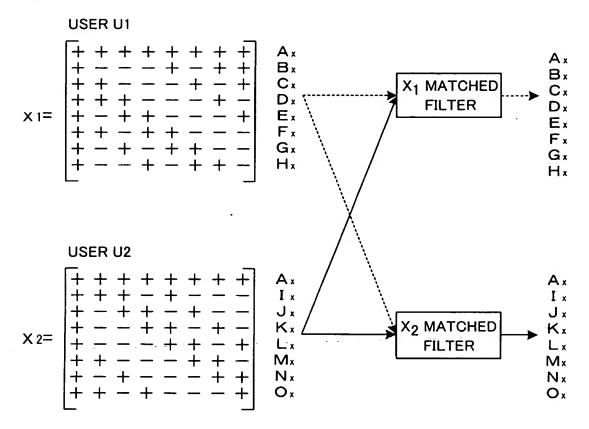
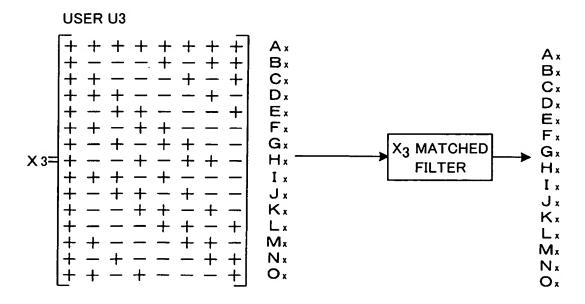
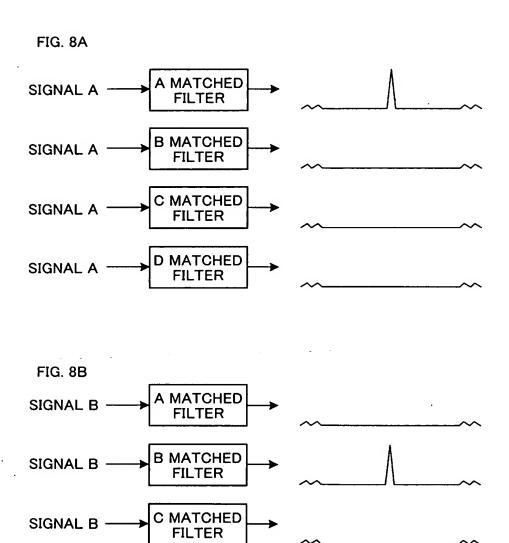


FIG. 7B





D MATCHED

FILTER

SIGNAL B

SIGNAL B

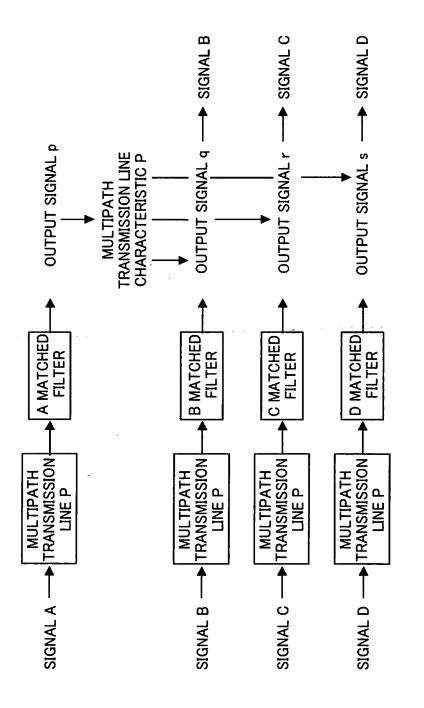
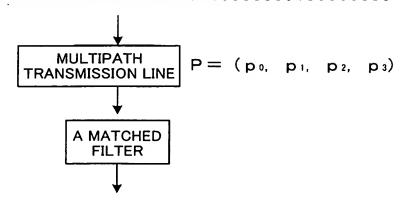


FIG. 9

SIGNAL A 100000001000000010000000100000000



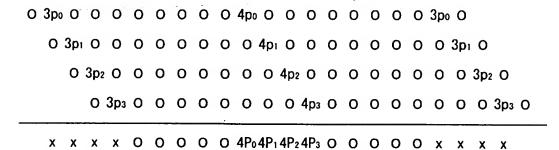


FIG. 10

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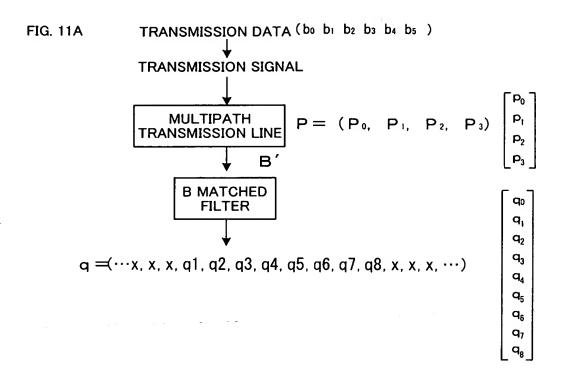


FIG. 11B

$$\begin{bmatrix} b_0 & O & O & O \\ b_1 & b_0 & O & O \\ b_2 & b_1 & b_0 & O \\ b_3 & b_2 & b_1 & b_0 \\ b_4 & b_3 & b_2 & b_1 \\ b_5 & b_4 & b_3 & b_2 \\ O & b_5 & b_4 & b_3 \\ O & O & b_5 & b_4 \\ O & O & O & b_5 \end{bmatrix} \begin{bmatrix} p_0 \\ p_1 \\ p_2 \\ p_3 \end{bmatrix} = \begin{bmatrix} q_0 \\ q_1 \\ q_2 \\ q_3 \\ q_4 \\ q_5 \\ q_6 \\ q_7 \\ q_8 \end{bmatrix}$$

FIG. 12A A MATCHED FILTER

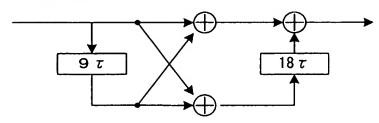


FIG. 12B B MATCHED FILTER

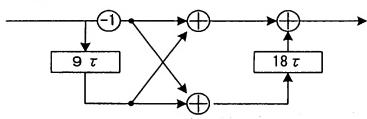


FIG. 12C C MATCHED FILTER

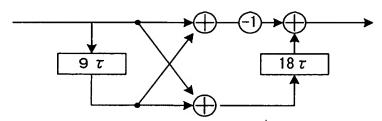


FIG. 12D D MATCHED FILTER

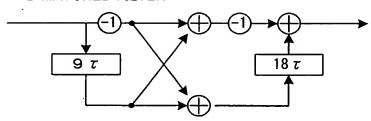
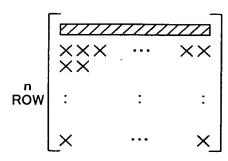


FIG. 13A FIG. 13B MULTIPATH CHARACTERISTIC MULTIPATH CHARACTERISTIC **FAVORABLE UNFAVORABLE** n COLUMN n COLUMN XX XXn ROW **ROW** n COLUMN n COLUMN XX XXn ROW n ROW



SIGNAL SEQUENCE FOR MULTIPATH ESTIMATION

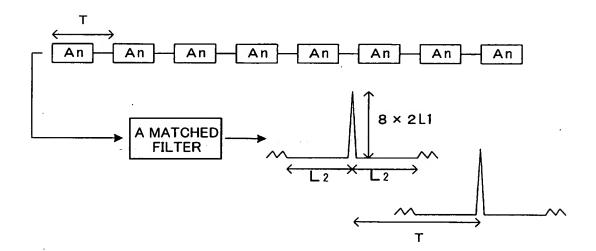


FIG. 14

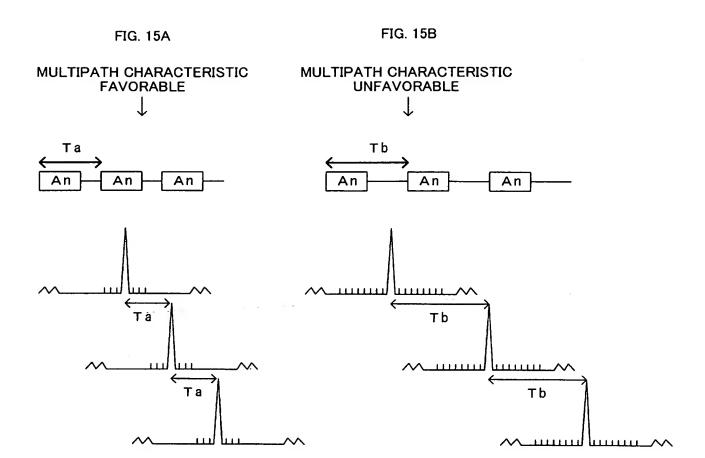


FIG. 16

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